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**THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re U.S. Patent Application of )

SUGAHARA et al. )

Art Unit 2815 )

Application Number: 10/522,241 )

Filed: January 25, 2005 )

For: A SPIN TRANSISTOR BASED ON THE SPIN-  
FILTER EFFECT AND A NONVOLATILE MEMORY  
USING SPIN TRANSISTORS )

ATTORNEY DOCKET NO. HIRA.0178 )

Honorable Assistant Commissioner  
for Patents  
Washington, D.C. 20231

**COVER LETTER**

Sir:

[x] The fee for submission of claims is calculated as shown below:

FOR	TOTAL WITH NEW CLAIMS ADDED	TOTAL CURRENTLY ON FILE	CLAIMS ALREADY PAID	RATE	CALCULATION
Total Claims	77	80	60 (Over 20)	x \$50	0
Independent Claims	11	11	18 (Over 3)	x \$210	0
MULTIPLE DEPENDENT CLAIM(S)				+ \$370	0
REDUCTION FOR FILING BY SMALL ENTITY (note 37 C.F.R. §§ 1.9, 1.27, 1.28). IF APPLICABLE, VERIFIED STATEMENT MUST BE ATTACHED				- x 1/2	
				TOTAL	0.00

In addition, the below-identified communications are submitted in the above-captioned application or proceeding:

- [ x ] Response to Office Action  
(with Claim Amendments)
- [ ] Substitute Specification
- [ ] Assignment
- [ ] Letter to Draftsperson  
(with \_\_\_ Replacement Sheets)

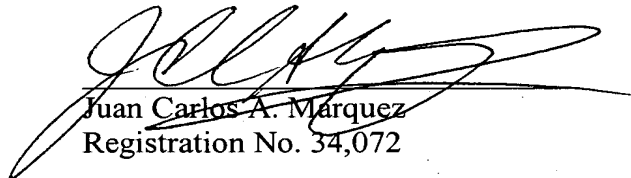
- [ ] Substitute Specification (clean and  
marked-up version)
- [ ] Statements & Pre-exam search report  
with References
- [ ] Information Disclosure Statement with  
references



- ☐ Please charge my **Deposit Account Number** \_\_\_\_\_ in the amount of \_\_\_\_\_ to cover the fees for \_\_\_\_\_. A duplicate copy of this paper is enclosed.
- ☐ A check in the amount of \$\_\_\_\_\_ to cover the fee is enclosed.
- ☒ The Commissioner is hereby authorized to charge any additional fees associated with this communication, or credit any overpayment to **Deposit Account Number 08-1480**.

Respectfully submitted,

\_\_\_\_\_  
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**March 4, 2008**



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**In re U.S. Patent Application of**

**SUGAHARA et al.**

**Application Number: 10/522,241**

**Filed: October 5, 2005**

**For: A SPIN TRANSISTOR BASED ON THE SPIN-  
FILTER EFFECT AND A NONVOLATILE MEMORY  
USING SPIN TRANSISTORS**

**ATTORNEY DOCKET NO. HIRA.0178**

**Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**

**Unit 2815**

**Examiner  
Valentine, Jami M.**

**RESPONSE AND AMENDMENT UNDER 37 C.F.R. § 1.111**

Sir:

This is in response to the Final Office Action mailed on December 4, 2007, the period of response to which is set to expire on March 4, 2008. Please amend the above-referenced application as follows: